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ATGGAGAGCAAGGTGCTGCTGCCGTCGCCCTGTGGCTCTGCGTGGAGACCC  
 GGGCCGCTCTGTGGGTTGCCTAGTGTCTCTTGATCTGCCCAGGCTCAGCA  
 TACAAAAGACATACTTACAATTAAGGCTAATACAACCTTCAAATTACTTGCAG  
 GGGACAGAGGGACTTGGACTGGCTTTGGCCAATAATCAGACTGGCAGTGAG  
 CAAAGGGTGGAGTGACTGAGTGCAGCGATGGCCTCTTCTGTAAGACACTCAC  
 AATTCCAAAAGTGATCGGAAATGACACTGGAGCCTACAAGTCTTCTACCGGG  
 AAACGACTTGGCCTCGGTCAATTTATGTCTATGTTCAAGATTACAGATCTCCATT  
 TATTGCTTCTGTAGTGACCAACATGGACTCGTGTACATTACTGAGAACAAAA  
 CAAAACGTGGTGATTCCATGTCTCGGGTCCATTCAAATCTCAACGTGTCATT  
 TGTGCAAGATACCCAGAAAAGAGATTGTTCTGATGGTAACAGAATTTCTCG  
 GACAGCAAGAAGGGCTTTACTATTCCAGCTAGATGATCAGCTATGCTGGCATG  
 GTCTTCTGTGAAGCAAAATTAATGATGAAAGTTACCAGTCTATTATGTACATAG  
 TTGTCGTTGTAGGGTATAGGATTTATGATGTGGTCTGAGTCCGTCTCATGGAA  
 TTGAACATCTGTGGAGAAAAGCTTGCTTAAATTGTACAGCAAGAAGTGAAC  
 TAAATGTGGGATTGACTTCAACTGGGAATACCTTCTTGAAGCATCAGCATA  
 AGAAACTTGTAAACCGAGACCTAAAAACCCAGTCTGGGAGTGAGATGAAGAA  
 TTTTGTAGCACCTAACTATAGATGGTGAACCCGGAGTGACCAAGGATTGTAC  
 ACCTGTGCAGCATCCAGTGGGCTGATGACCAAGAAGAACAGCACATTTGTGAG  
 GGTCCATGAAAAACCTTTTGTGCTTTTGAAGTGGCATGGAATCTCTGGTGA  
 AGCCACGGTGGGGAGCGTGTGAGATCCCTGCGAAGTACCTTGGTTACCCAC  
 CCCAGAAATAAATGGTATAAAATGGAATACCCCTTGAGTCCAATCACACAA  
 TTAAAGCGGGCATGTACTGACGATTATGGAAGTCAAGAGAGACACAGGA  
 AATTACACTGTATCCTTACCAATCCCATTTCAAAGGAGAAGCAGAGCCATGTG  
 GTCTCTCTGGTGTGTATGTCCACCCAGATTGGTGAGAAATCTCTAATCTCTC  
 CTGTGGATTCTACCAGTACGGCACCCTCAAACGCTGACATGTACGGTCTATG  
 CCATTCTCCCCCGCATCACATCCACTGGTATTGGCAGTTGGAGGAAGAGTGC  
 GCCAACGAGCCAGCCAAGCTGTCTCAGTGACAAACCCATACCTTGTGAAGA  
 ATGGAGAAGTGTGGAGACTTCCAGGGAGGAAATAAATGAAGTTAATAAAA  
 ATCAATTTGCTCTAATTGAAGGAAAAACAAACTGTAAGTACCTTGTATCCA  
 AGCGGCAATGTGTACGCTTTGTACAAATGTGAACGGTCAACAAAGTCGGGA  
 GAGGAGAGAGGGTGTCTCTCCACGTGACCAGGGGTCCTGAAATTACTTTG  
 CAACCTGACATGCAGCCACTGAGCAGGAGAGCGTGTCTTTGTGGTGCAGTGC  
 AGACAGATCTACGTTTGAGAACCTCACATGGTACAAGCTTGGCCACAGCCTCT  
 GCCAATCCATGTGGGAGAGTTGCCACACCTGTTTGAAGAACTTGGATACTCT  
 TTGGAATGAATGCCACCATGTTCTCTAATAGCACAAATGACATTTTGATCATG  
 GAGCTTAAGAAATGCATCCTTGCAGGACCAAGGAGACTATGTCTGCCTTGCTCAA  
 GACAGGAAGACCAAGAAAAGACATTGCGTGGTCAGGCAGCTCACAGTCTAGA  
 GCGTGTGGACCCACGATCACAGGAACTGGAGAATCAGACGACAAGTATTG  
 GGGAAAGCATCGAAGTCTCATGCACGGCATCTGGGAATCCCCCTCCACAGATC  
 ATGTGGTTTAAAGATAATGAGACCTTGTAGAAGACTCAGGCATTGTATTGAAG  
 GATGGGAACCGGAACCTCACTATCCGCAGAGTGAGGAAGGAGCAGCAAGGCC  
 TCTACACCTGCCAGGCATGCAGTGTCTTGGCTGTGCAAAAGTGGAGGCATTTT  
 TCATAATAGAAGGTGCCCAGGAAAAGACGAACTTGGAAATCATTATTCTAGTAG  
 GCACGGCGGTGATTGCCATGTTCTTCTGGCTACTTCTGTATCATCTACCGA  
 CCGTTAAGCGGGCAATGGAGGGGAAGTGAAGACAGGTACCTGTCCATCGT

FIG. 1A

CATGGACCCAGATGAACTCCCATTTGGATGAACATTGTGAACGACTGCCTTATGA  
 TGCCAGCAAATGGGAATTTCCCAGAGACCGCTGAAGCTAGGTAAGCCTCTTG  
 GCCGTGGTGCCTTTGGCCAAGTGATTGAAGCAGATGCCTTTGGAATTGACAAG  
 ACAGCAACTTGCAGGACAGTAGCAGTCAAAATGTTGAAAGAAGGAGCAACACA  
 CAGTGACCATCGAGCTCTCATGTCTGAACTCAAGATCCTCATTCATATTGGTCA  
 CCATCTCAATGTGGTCAACCTTCTAGGTGCCTGTACCAAGCCAGGAGGGCCAC  
 TCATGGTGATTGTGGAATTTGCAAATTTGGAACCTGTCCACTTACCTGAGGA  
 GCAAGAGAAATGAATTTGTCCCCTACAAGACCAAAGGGGCACGATTCCGTCAA  
 GGGAAAGACTACGTTGGAGCAATCCCTGTGGATCTGAAACGGCGCTTGGACAG  
 CATCACCAGTAGCCAGAGCTCAGCCAGCTCTGGATTGTGGAGGAGAAGTCCC  
 TCAGTGATGTAGAAGAAGAGGAAGCTCCTGAAGATCTGTATAAGGACTTCTCTG  
 ACCTTGGAGCATCTCATCTGTTACAGCTTCCAAGTGGCTAAGGGCATGGAGTTC  
 TTGGCATCGGAAAGTGATCCACAGGGACCTGGCGGCACGAAATATCCTCTT  
 ATCGGAGAAGAACGTGGTTAAAATCTGTGACTTTGGCTTGGCCCGGATATTTA  
 TAAAGATCCAGATTATGTCAGAAAAGGAGATGCTCGCCTCCCTTTGAAATGGAT  
 GGCCCCAGAAACAATTTTGGACAGAGTGACACAATCCAGAGTGACGTCTGGT  
 CTTTGGTGTTTTGCTGTGGGAAATATTTCTTAGGTGCTTCTCCATATCCTGG  
 GGTAAACATTGATGAAGAATTTGTAGGCGATTGAAAGAAGGAACTAGAATGA  
 GGGCCCTGATTATACTACACCAGAAATGTACCAGACCATGCTGGACTGCTGG  
 CACGGGGAGCCCAGTCAGAGACCCACGTTTTACAGATTGGTGGAAACATTTGGG  
 AAATCTCTTGAAGCTAATGCTCAGCAGGATGGCAAAGACTACATTGTTCTTCC  
 GATATCAGAGACTTTGAGCATGGAAGAGGATTCTGGACTCTCTGCTACCTC  
 ACCTGTTTCTGTATGGAGGAGGAGGAAGTATGTGACCCCAAATTCATTATGA  
 CAACACAGCAGGAATCAGTCAGTATCTGCAGAACAGTAAGCGAAAGAGCCGGC  
 CTGTGAGTGTA AAAACATTTGAAGATATCCCGTTAGAAGAACCAGAAGTAAAAG  
 TAATCCCAGATGACAACCAGACGGACAGTGGTATGGTTCTTGCCTCAGAAGAG  
 CTGAAAACCTTTGGAAGACAGAACCAATTATCTCCATCTTTTGGTGGAATGGTG  
 CCCAGCAAAGCAGGGAGTCTGTGGCATCTGAAGGCTCAAACCAGACAAGCG  
 GCTACCAGTCCGATATCACTCCGATGACACAGACACCACCGTACTCCAGT  
 GAGGAAGCAGAACTTTTAAAGCTGATAGAGATTGGAGTGCAACCGGTAGCAC  
 AGCCCAGATTCTCCAGCCTGACTCGGGACCACACTGAGCTCTCCTCCTGTTTA  
 A (SEQ ID NO:1)

FIG. 1B

MESKVL LAVALWLCVETRAASVGLPSVSLDLPRLSIQKDILT IKANTTLQTTCRGQR  
 DLDWLWPNNQSGSEQRVEVTECSGDLFCKLTIPKVIGNDTGAYKCFYRETDLAS  
 VIYVYVQDYRSPFIASVSDQHGVVYI IENKNKT VVIPCLGSI SNLNVSLCARYPEKR  
 FVPDGNRI SWDSKKGFI IPSYMI SYAGMVFEAKINDESYQSIMYI VVVVGYRIYDV  
 VLSPSHGIELSVGEKLV LNCTARTELVNGIDFNMEYPSSKHQHKLVNRDLKTQS  
 GSEMKKFLSTLTIDGVTRSDQGLYTCAASSGLMTKKNSTFVRVHEKPFVAFGSGM  
 ESLVEATVGERVRIPAKYLGYPPEIKWYKNGI PLESNHTIKAGHVLTIMEVSE RDT  
 GNYTVILTNPISKEKQSHVVS LVVYPPQIGEKSLI SPVDSYQYGT TQTLTCTVYAI P  
 PPHIHWWQLEEECANEPSQAVSVTNYPCEEWRSEDFQCGNKIEVNKNQFA  
 LIEGKNKT VSTLVQAANVSALYKCEAVNKVGRGERVISFHVTRGPETTLOPDMQP  
 TEQESVSLWCTADRSTFENLTWYKLGQPLPIHVGE LPTPVCKNLDTLWKL NATM  
 FSNSTNDILIMELKNASLQDQD TVCLAQDRKTKKRHCVVRLTVLERVAPTTGN  
 LENQTTSIGESI EVSCTASGNPPPQIMWFKDNE TLVEDSGIVLKDGNRNLTI RRVK  
 EDEGLYTCQACSVLGCAKVEAFFIEGAQKTNLEIIILVGTAVIAMFFWLLLVIILRT  
 VKRANGGELKTGYLSIVMDPDELPLDEH CERLPYDASKWEFPRDR LKLGKPLGRG  
 AFGQVIEADAFGIDKTATCRTVAVKMLKEGATHSEHRALMSELKILIHIGHHLNVV  
 NLLGACTKPGGPLMVI VEFCKFGNLSTYLRSKRNEFVPYKTKGARFRQ GKDYVG  
 AIPVDLKRRLDSITSSQSASSGFVEEKSLS DVEEEEAPEDLYKDFLTLEHLICYSFQ  
 VAKGMEFLASRKC IHRDLAARNILLSEKNVVKICDFGLARDIYKDPDYVRKGDAR  
 LPLKWMAPETIFDRVYTIQSDVWSFGVLLWEIFSLGASPYPGVKIDE EFCRRLKEGT  
 RMRAPDYTTPEMYQTMLDCWHGEPSQRPTFFSELVEHLGNLLQANAQQDGKDYIVL  
 PISETLSMEEDSGLSLPTSPVSCMEEEVCDPKFHYDNTAGISQYLQNSKRKSRPVS  
 VKTFEDIPLEEPEVKVIPDDNQTDSGMVLASEELKTLEDRTKLSPSFGGMVPSKSRE  
 SVASEGSNQTSGYQSGYHSDDTDTTVYSSEEAE LKLIEIGVQTGSTAQI LQPDSGT  
 TLSSPPV (SEQ ID NO:2)

FIG.2

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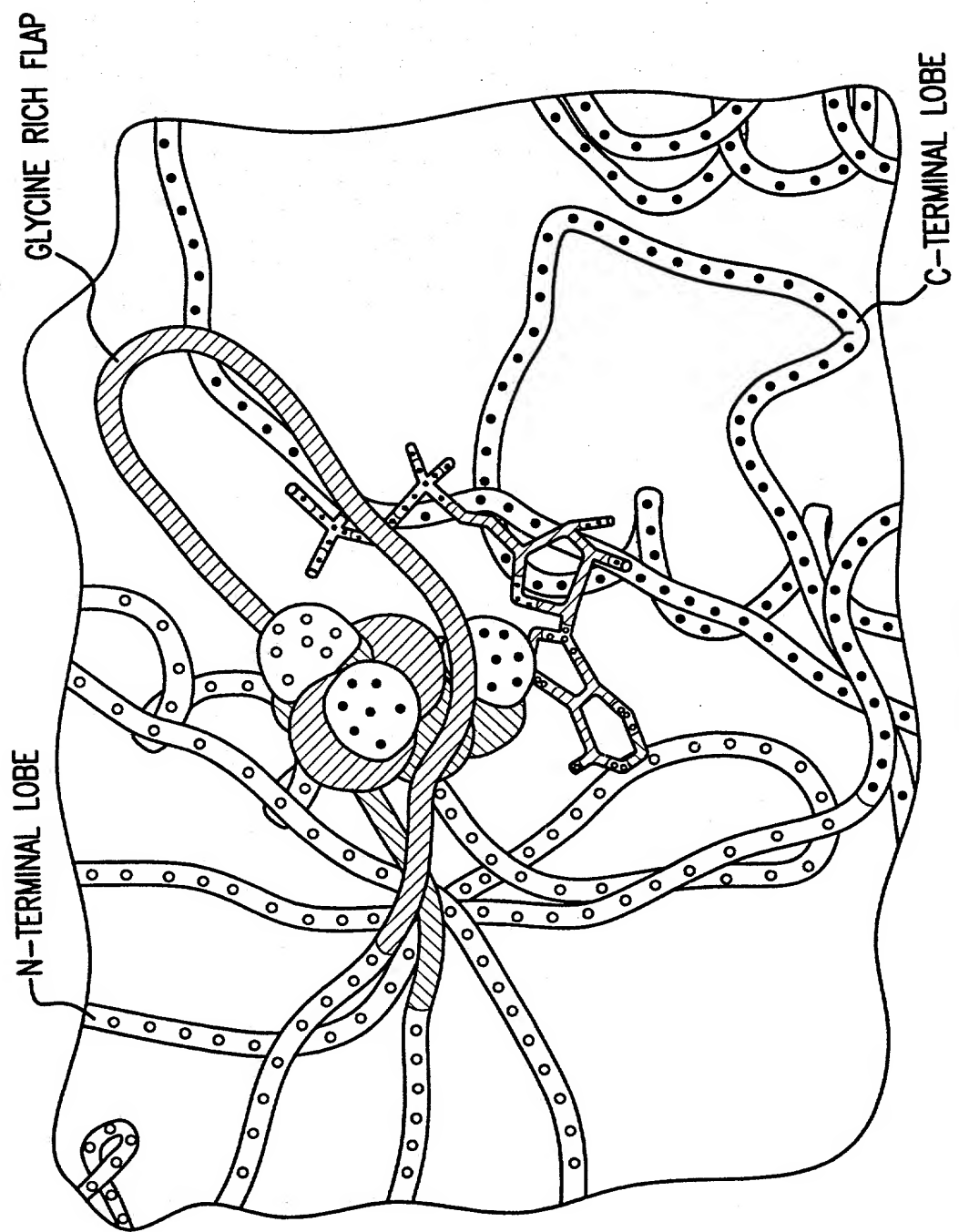


FIG.3A

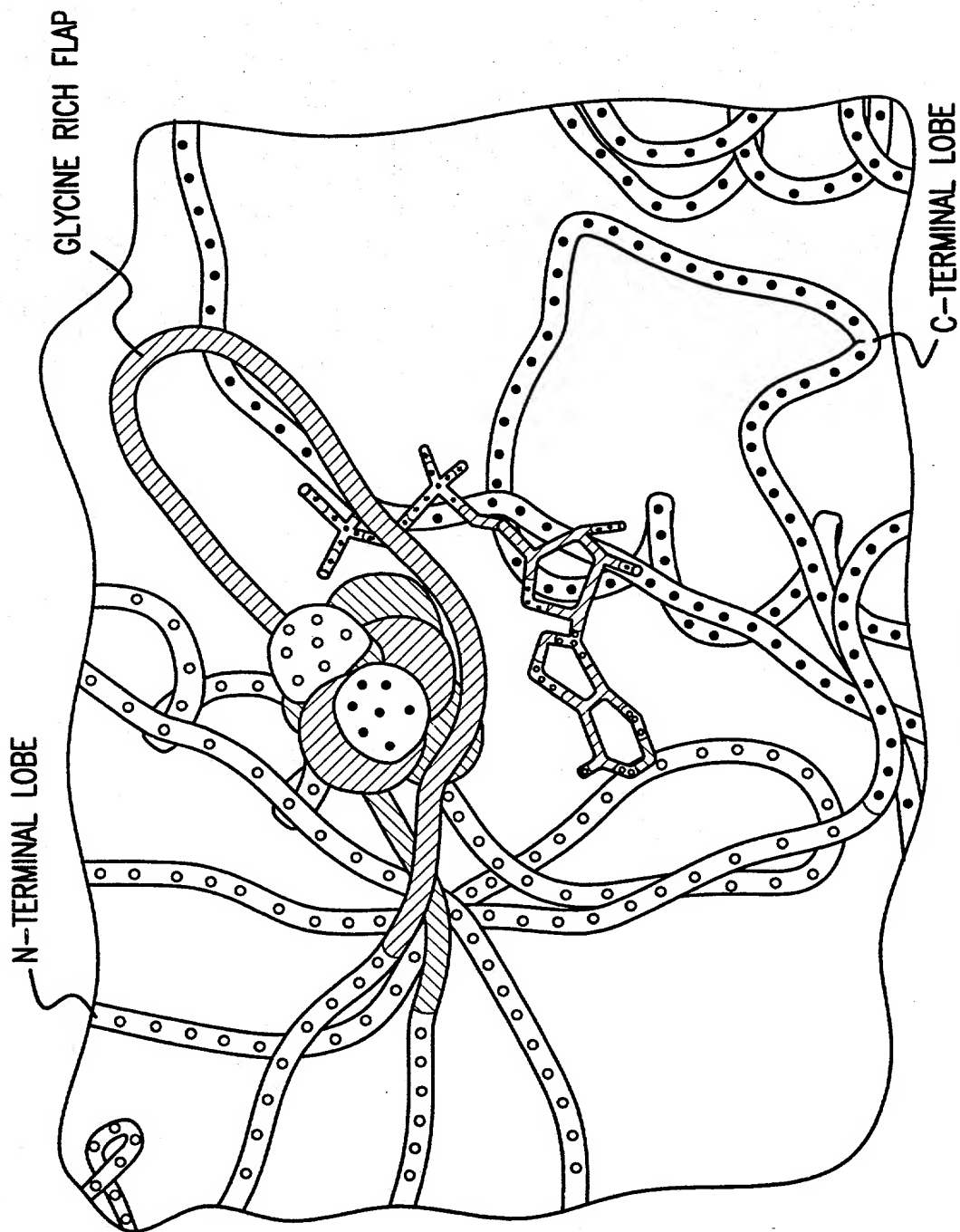


FIG.3B

Anti-phosphotyrosine

| E848 |    |     | V848 |    |
|------|----|-----|------|----|
| 12   | 12 | 120 | 12   | 12 |
| -    | +  | +   | -    | +  |



FIG.4A

Anti-KDR

| E848 | V848 |
|------|------|
|------|------|

|     |    |
|-----|----|
| 120 | 12 |
| -   | -  |

Enzyme (ng)  
ATP (1 mM)

kDa

— 121



— 78

FIG.4B